Released: June 2010
Next MECS will be conducted in 2010
Table 10.23 Reasons that Made LPG Unswitchable, 2006;
Level: National Data;

Row: NAICS Codes;
Column: Reasons that Made Quantity Unswitchable;
Unit: Million barrels.

Reasons that Made LPG Unswitchable	
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NAICS Code(a)	Subsector and Industry	Total Amount of LPG Consumed as a Fuel	Total Amount of Unswitchable LPG Fuel Use	Equipment is Not Capable of Using Another Fuel					Unavailable Storage for Alternative Fuels(d	Another	Combinations of Columns F, G, H, I, J, and K	Don't Know
Total United States												
311	Food	850	549		Q			1	,	0		* 92
3112 311221	Grain and Oilseed Milling Wet Corn Milling	Q 3	Q 2		*	0 0		1	((
31131	Sugar Manufacturing	10	9		0			0	((
3114	Fruit and Vegetable Preserving and Specialty Foods	147	92		*	1	2	0	Ċ	-		* 22
3115	Dairy Products	28	21		0			*	((0 Q
3116	Animal Slaughtering and Processing	239	147		, Q	67	Q	0	(0	(0 Q 1 Q
312 3121	Beverage and Tobacco Products Beverages	251 244	177 171		Q			0	,	, 0		
3122	Tobacco	7	6		0		0	0	(-		* 0
313	Textile Mills	72	52		Q			0	(-	(
314	Textile Product Mills	167	Q		*	0		0	(-	(-
315 316	Apparel Leather and Allied Products	6 14	Q 5		0	-	0	0	(-	(
321	Wood Products	1,368	732		12		-	Q	,	0	Č	
321113	Sawmills	113	62	51	0	*	*	Q	(* 5
3212	Veneer, Plywood, and Engineered Woods	850	416		Q			0	((
3219 322	Other Wood Products Paper	346 1,339	200 1,007	163 848	Q Q			Q 0	C	0	(
322110	Pulp Mills	29	28		0			0	((
322121	Paper Mills, except Newsprint	182	149	133	0	0	4	0	2		(
322122	Newsprint Mills	47	8		0	-		0	(-	(
322130 323	Paperboard Mills Printing and Related Support	117 183	97 104		0) 0 . Q		0	C		(
324	Petroleum and Coal Products	7,424	4,267		975			0	823		,	* 1,012
324110	Petroleum Refineries	7,307	4,179		975			0	823			* 1,012
324199	Other Petroleum and Coal Products	2	*	*	0				((
325 325110	Chemicals Petrochemicals	1,907	1,717 1	1,220		4	256 0	195 0	,	0	(
325110	Industrial Gases	Q	Q	Q	0		0	*	(-	(
325181	Alkalies and Chlorine	2	2		Ö		*	0	Č		Č	
325182	Carbon Black	*	*	*	0	-		0	(-	(
325188 325192	Other Basic Inorganic Chemicals Cyclic Crudes and Intermediates	26	18	12	0		Q 0	0	(-	(-
325192	Ethyl Alcohol	10	2	2	0			0	(0 *
325199	Other Basic Organic Chemicals	76	11	10	Ö				Č	0		* 1
325211	Plastics Materials and Resins	1,520	1,496		0			194	(-	(
325212 325222	Synthetic Rubber Noncellulosic Organic Fibers	9	8 7	8 7	0	-	-	0	,	0	(-
325311	Nitrogenous Fertilizers	9	9	•	0	-	0	0	(-	-	
325312	Phosphatic Fertilizers	3	2		Ö			0	Ć		Ċ	
3254	Pharmaceuticals and Medicines	49	Q		0	-		*	(-	(
325412 325992	Pharmaceutical Preparation	44	Q 3		0			. 0	(-		0 0
325992	Photographic Film, Paper, Plate, and Chemicals Plastics and Rubber Products	1,316	898		0			Q	(C	
327	Nonmetallic Mineral Products	1,327	1,095		*	16		0	5	-	Č	
327211	Flat Glass	11	8		0		0	0	((
327212	Other Pressed and Blown Glass and Glassware	92	Q		0			0	(C	
327213 327215	Glass Containers Glass Products from Purchased Glass	31 68	29 37		0	0		0	1	0		* 0 * 1
327310	Cements	12	6		0			0	(-		. :
327410	Lime	6	5	_	0			0	3		(•
327420	Gypsum	70	61		0			0	((
327993 331	Mineral Wool Primary Metals	27 979	22 596		4	2		0	1	0	(
331111	Iron and Steel Mills	43	28		*	*	12	0	(-		
331112	Electrometallurgical Ferroalloy Products	1	1	1	0	0	0	0	Ċ	0	(0 *
3312	Steel Products from Purchased Steel	69	50		2		4	Q	•	0	(
3313 331314	Alumina and Aluminum	266 13	66 10		Q 0		3	0	,	0		* 8 0 4
331314	Secondary Smelting and Alloying of Aluminum Aluminum Sheet, Plate and Foils	13 27	10 26		0			·	,	0		* 3
331316	Aluminum Extruded Products	214	23		Q			0	((

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NAICS Code(a)	Subsector and Industry	Total Amount of LPG Consumed as a Fuel	Total Amount of Unswitchable LPG Fuel Use	Equipment is Not Capable of Using Another Fuel			Environmental		Unavailable Storage for Alternative Fuels(d)	Another		Don't Know
3314	Nonferrous Metals, except Aluminum	335	284	100	0	0	Q	0	1	0	2	179
3315	Foundries	265	167	129	1	1	2	1	2	0	1	31
331511	Iron Foundries	95	69	65	*	0	2	0	*	0	0	2
331521	Aluminum Die-Casting Foundries	47	16	13	1	1	*	0	0	0	1	*
331524	Aluminum Foundries, except Die-Casting	49	29	13	0	0	*	1	*	0	0	15
332	Fabricated Metal Products	1,178	729	360	Q	*	Q	Q	Q	0	0	Q
333	Machinery	725	581	535	Q	0	0	0	0	0	Q	Q
334	Computer and Electronic Products	Q	9	7	0	0	0	0	*	0	0	Q
334413	Semiconductors and Related Devices	Q	Q	Q	0	0	0	0	*	0	0	*
335	Electrical Equip., Appliances, and Components	229	133	96	Q	Q	Q	0	0	0	0	Q
336	Transportation Equipment	1,008	626	536	12	Q	6	Q	*	0	12	43
336111	Automobiles	63	14	13	*	0	0	0	*	0	1	*
336112	Light Trucks and Utility Vehicles	10	5	4	0	0	0	0	*	0	0	1
3364	Aerospace Product and Parts	116	85	58	12	0	4	0	0	0	5	7
336411	Aircraft	12	11	2	0	0	3	0	0	0	1	6
337	Furniture and Related Products	140	91	68	0	0	0	Q	0	0	0	16
339	Miscellaneous	152	51	28	*	Q	0	Q	0	0	0	8
	Total	20,669	13,530	7,809	1,040	397	328	238	870	0	Q	2,517

Reasons that Made LPG Unswitchable

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate. Source: Energy Information Administration, Office of Energy Markets and End

Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.

⁽a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

⁽b) The environmental resrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

⁽c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

⁽d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NF=No applicable RSE row/column factor.

^{*} Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.